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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/760,797	01/17/2001	Douglas C. Watson	07303.0032	4406
22852	7590 10.25/2002			
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW WASHINGTON, DC 20006			EXAMINER	
			ESPLIN, DAVID B	
			ART UNIT	PAPER NUMBER
			2851	
			DATE MAILED: 10/25/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Annlingtion No.	T A
	Application No.	Applicant(s)
	09/760,797	WATSON ET AL.
Office Action Summary	Examiner	Art Unit
	D. Ben Esplin	2851
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a repl bly within the statutory minimum of thirty (I will apply and will expire SIX (6) MONTH te, cause the application to become ABAN	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
,—	his action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims		
4) \boxtimes Claim(s) <u>1-23</u> is/are pending in the applicatio	ın	
4a) Of the above claim(s) is/are withdra		
5) Claim(s) <u>1-3,7-9,13 and 14</u> is/are allowed.		
6) Claim(s) 4,6,10,12 and 15-23 is/are rejected.		
7)⊠ Claim(s) <u>5 and 11</u> is/are objected to.		
8) Claim(s) are subject to restriction and/o	or election requirement.	
Application Papers		
9)⊠ The specification is objected to by the Examine	er.	
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the	e Examiner.
Applicant may not request that any objection to the	he drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).
11) The proposed drawing correction filed on	_ is: a)∏ approved b)∏ disa	approved by the Examiner.
If approved, corrected drawings are required in re	eply to this Office action.	
12) ☐ The oath or declaration is objected to by the Ex	xaminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 1	119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
 Certified copies of the priority documen 	ts have been received.	
2. Certified copies of the priority documen	ts have been received in App	olication No
 3. Copies of the certified copies of the price application from the International But * See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).	· ·
14)⊠ Acknowledgment is made of a claim for domest	·	
a) ☐ The translation of the foreign language pro	, ,	
15) Acknowledgment is made of a claim for domes	• •	
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Info	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)

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DETAILED ACTION

Specification

The abstract of the disclosure is objected to because it does not meet the requirement that the abstract should be between 50-150 words in length. Correction is required. See MPEP $\S 608.01(b)$.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 4, 6, 10, 12, and 15-23 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,333,775 to Haney et al.

Referring to claims 4, 6, 10 and 12, FIG. 3B of Haney shows a stage chamber assembly including a chamber portion with a first flange (cantilever portion 152), a top wall (flanged seal ring 156) with a second flange, a clamp channel (aperture 182), and an o-ring (flanged seal ring 154). FIG. 2 shows the above-described stage chamber assembly disposed in a photolithography system.

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Regarding claims 15-18, FIG. 3B of Haney shows a chamber seal device including a connecting member (adjustable screw 170) connecting a first portion (cantilever portion 152) and a second portion (flanged seal ring 156), and a sealing member (flanged seal ring 154) which contacts the first portion to create a sealing engagement of the chamber. FIG. 1 shows the chamber seal device disposed in a stage assembly in an exposure apparatus for imaging objects.

In reference to claims 19-23, the above stated structure and function of Haney would inherently lead to the method steps recited in these claims.

Allowable Subject Matter

Claims 1-3, 7-9, 13, and 14 are allowed.

Claims 5 and 11 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance: A wafer stage chamber assembly including a chamber seal device with a plurality of pins and a keyhole strip, a U-shaped clamp, or an inflatable o-ring, in combination with the rest of the structure and function found in these claims is not shown or taught in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- U.S. Patent No. 6,042,121 to Ma et al. discloses a metallic sealing ring for sealing a chamber.
- U.S. Patent No. 6,278,516 to Miwa et al. discloses a vacuum chamber with a sealing assembly using an o-ring.
- U.S. Patent No. 6,445,440 to Bisschops et al. discloses a stage chamber with a slideable seal.
- U.S. Patent No. 5,294,257 to Kelly et al. discloses an inflatable o-ring to create a seal in a photolithography system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Ben Esplin whose telephone number is (703) 305-4022. The examiner can normally be reached on Mon.-Fri. (8am-4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russell E. Adams can be reached on (703) 308-2847. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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DB# DBE

October 22, 2002

OF TONES